

**ABSTRACT OF THE DISCLOSURE**

A data transmission method is provided for a medium access control (MAC) of a mobile telecommunication system. Each logical channel may transmit a response field to the transport channel. The response field may represent a data characteristic and an amount of data having a corresponding characteristic. This may be transmitted with the response field representing a data amount of a buffer. The transport channel may perform a TFC selection based on priorities of each logical channel and the data characteristic.